

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P833911

Luminaire Tested: **TTN-D3-740-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833911
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TTN-D3-740-U-CQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7399.9 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

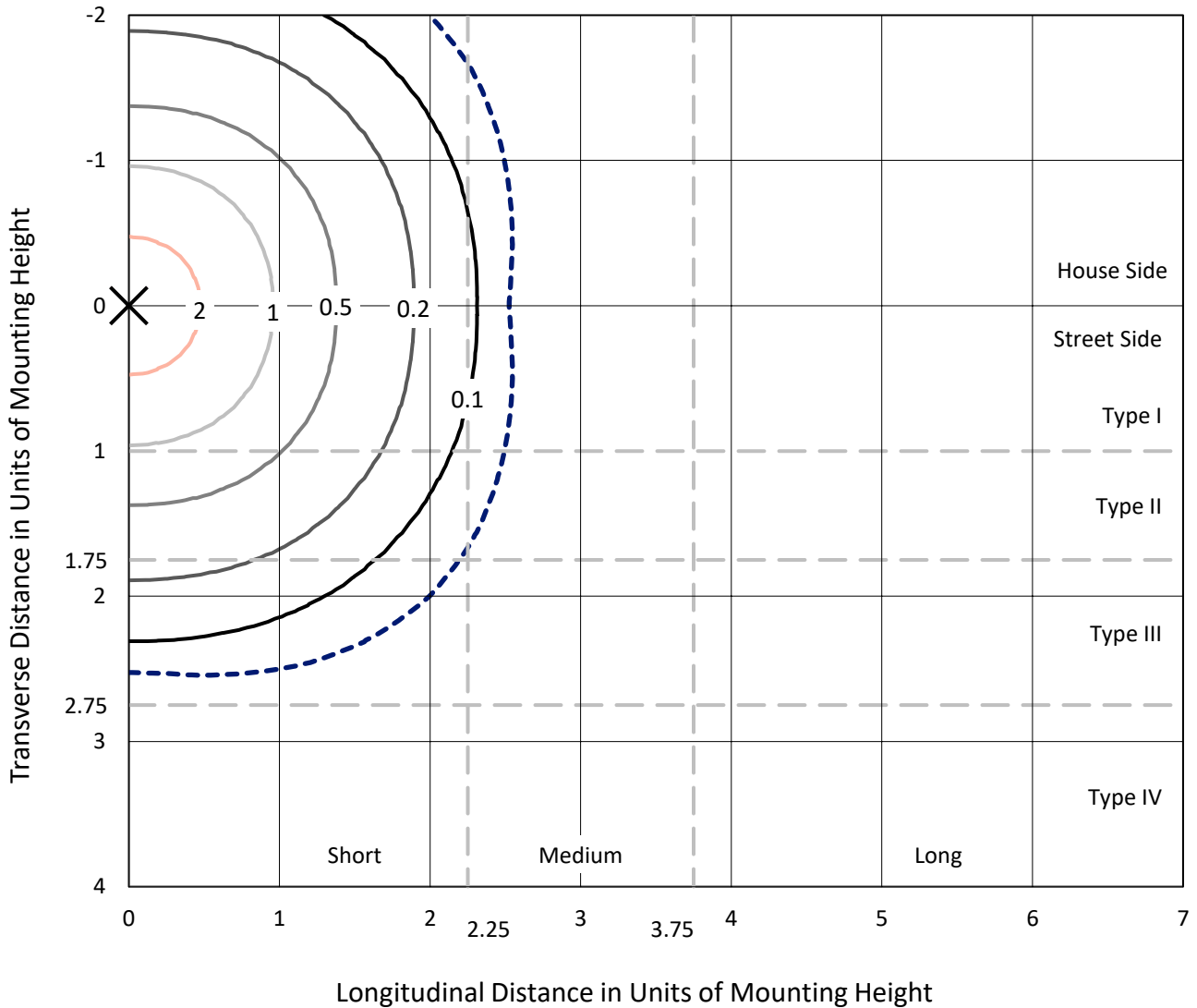
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

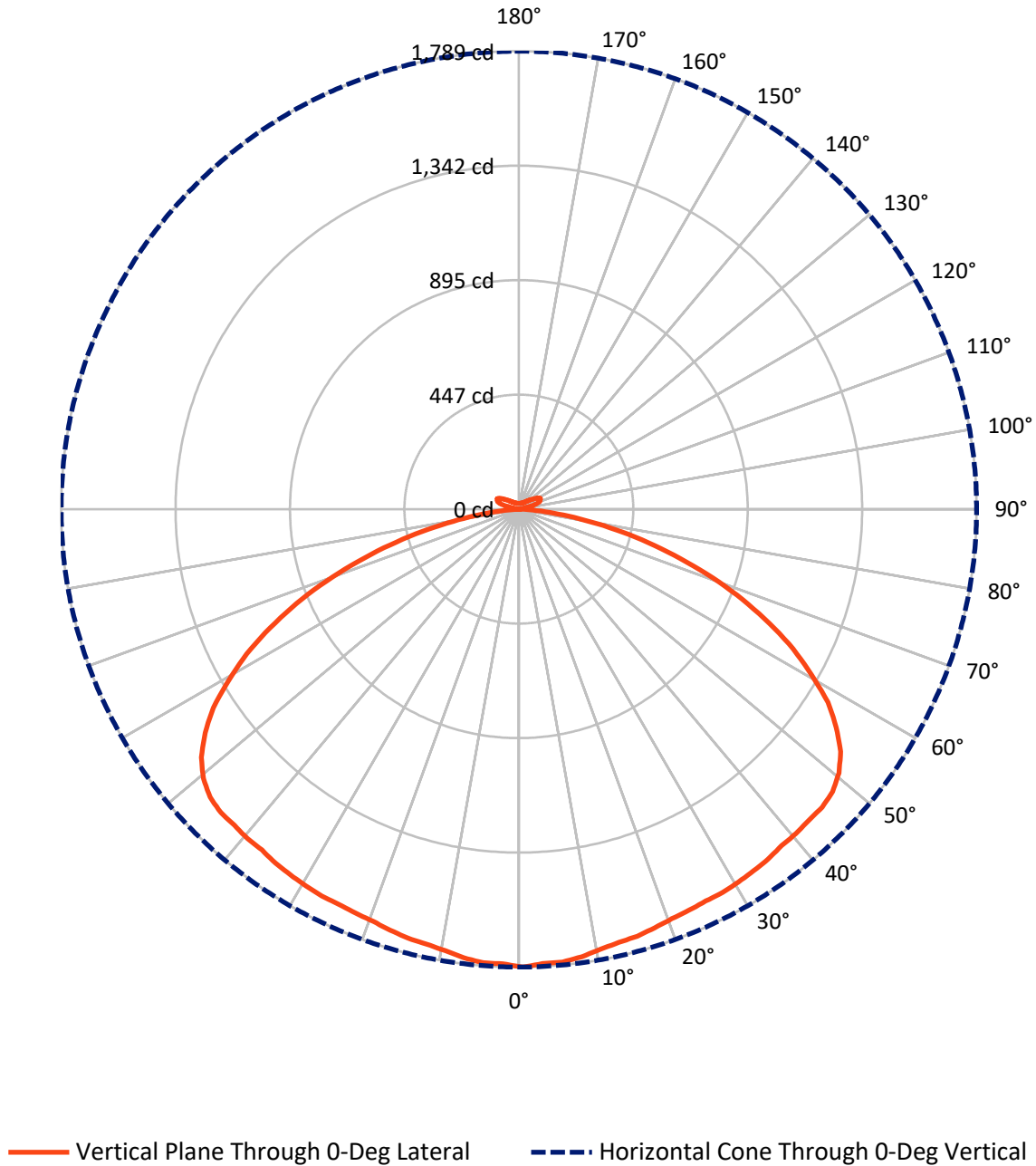
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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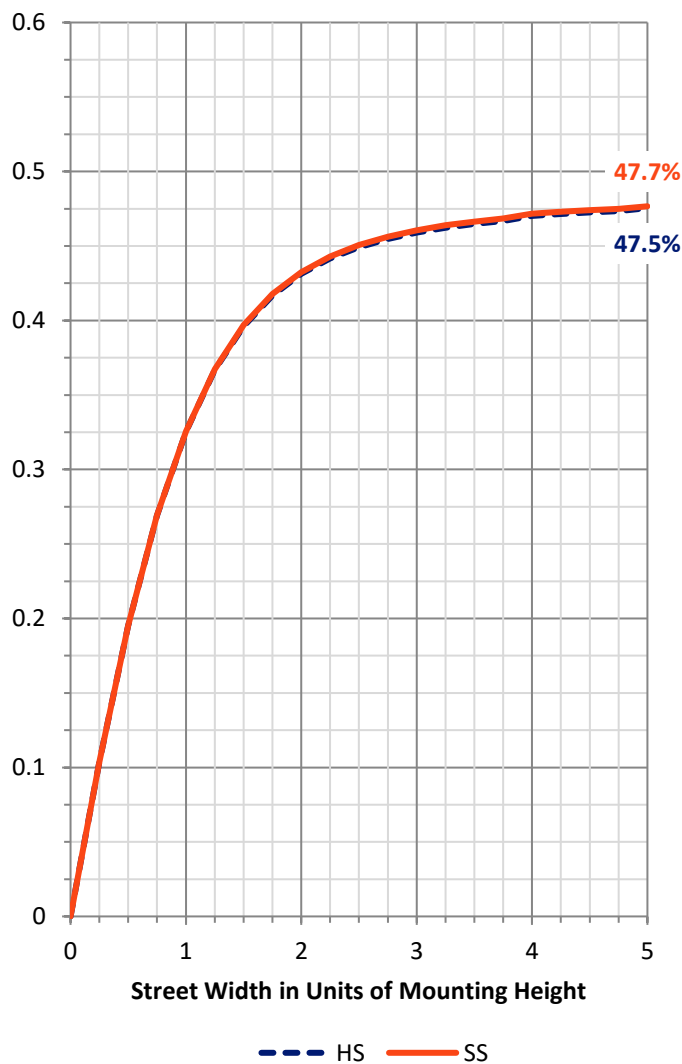
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.2	161.7	3699.9
	% Fixture	47.8	2.2	50.0
Street Side	Lumens	3538.2	161.7	3699.9
	% Fixture	47.8	2.2	50.0
Total	Lumens	7076.4	323.4	7399.9
	% Fixture	95.6	4.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	2.3
10°-20°	489.9	6.6
20°-30°	788.8	10.7
30°-40°	1061.0	14.3
40°-50°	1309.0	17.7
50°-60°	1404.4	19.0
60°-70°	1138.9	15.4
70°-80°	603.6	8.2
80°-90°	112.1	1.5
90°-100°	7.2	0.1
100°-110°	73.4	1.0
110°-120°	107.3	1.4
120°-130°	62.3	0.8
130°-140°	33.0	0.4
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	7076.4	95.6
0°-180°	7399.9	100.0

Coefficient of Utilization

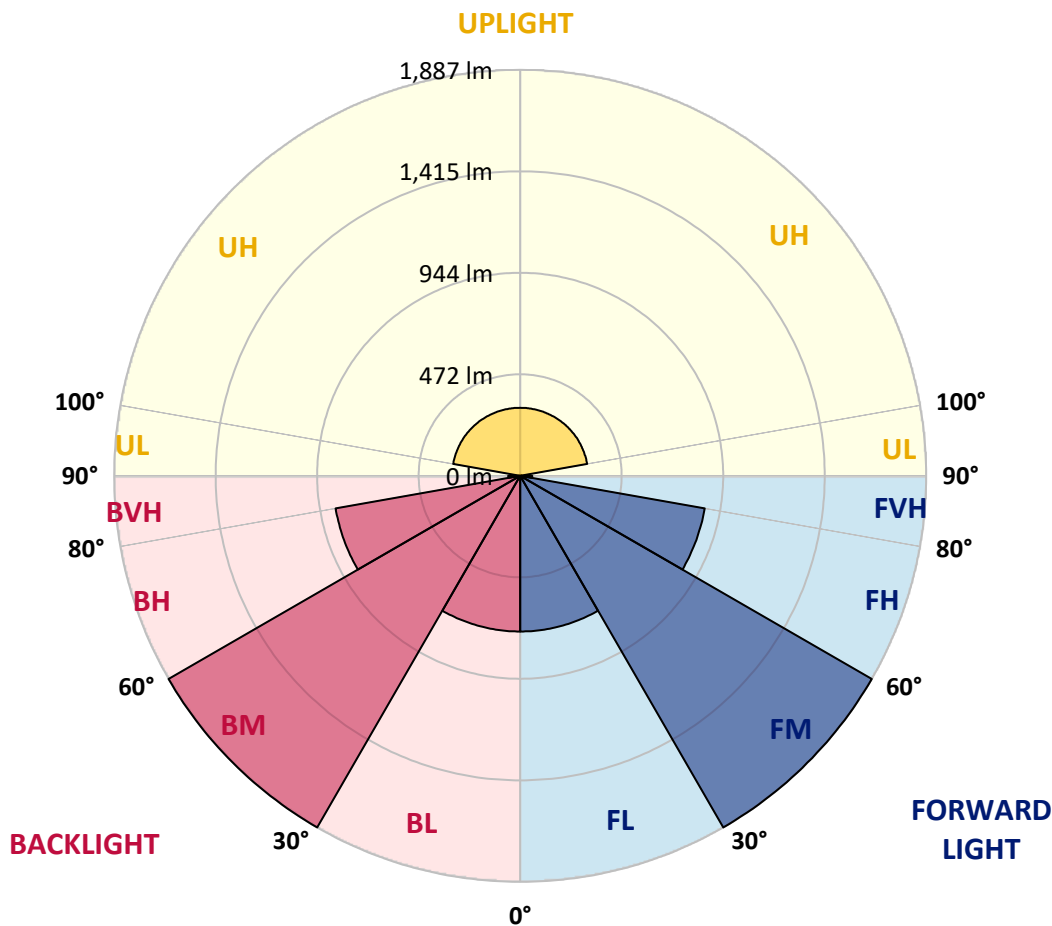


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.7	9.8			
FM (30°-60°)	1887.2	25.5			
FH (60°-80°)	871.3	11.8			G1/1800
FVH (80°-90°)	56.0	0.8			G1/100
BL (0°-30°)	723.7	9.8	B2/1000		
BM (30°-60°)	1887.2	25.5	B2/2500		
BH (60°-80°)	871.3	11.8	B2/1000		G1/1800
BVH (80°-90°)	56.0	0.8			G1/100
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.3		U3/500	

BUG Rating: B2-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3
2.5°	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1783.5
5°	1777.7	1777.7	1777.7	1777.7	1771.9	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7
7.5°	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1
10°	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7
12.5°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2
15°	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1725.6	1725.6
17.5°	1719.8	1719.8	1719.8	1719.8	1725.6	1725.6	1725.6	1719.8	1719.8	1719.8	1719.8
20°	1708.2	1708.2	1708.2	1714.0	1714.0	1714.0	1714.0	1714.0	1708.2	1708.2	1708.2
22.5°	1702.4	1702.4	1702.4	1702.4	1708.2	1708.2	1708.2	1708.2	1702.4	1702.4	1702.4
25°	1696.6	1696.6	1702.4	1702.4	1708.2	1708.2	1708.2	1702.4	1702.4	1696.6	1696.6
27.5°	1696.6	1696.6	1702.4	1702.4	1708.2	1708.2	1708.2	1708.2	1702.4	1696.6	1696.6
30°	1690.8	1696.6	1696.6	1702.4	1708.2	1708.2	1708.2	1702.4	1696.6	1690.8	1690.8
32.5°	1685.0	1685.0	1690.8	1696.6	1702.4	1702.4	1702.4	1696.6	1690.8	1685.0	1679.2
35°	1679.2	1679.2	1679.2	1690.8	1696.6	1696.6	1696.6	1690.8	1679.2	1673.5	1673.5
37.5°	1667.7	1673.5	1679.2	1685.0	1696.6	1696.6	1696.6	1685.0	1673.5	1667.7	1661.9
40°	1667.7	1667.7	1679.2	1685.0	1702.4	1702.4	1696.6	1685.0	1673.5	1661.9	1656.1
42.5°	1661.9	1667.7	1679.2	1696.6	1714.0	1714.0	1708.2	1690.8	1673.5	1661.9	1656.1
45°	1661.9	1661.9	1679.2	1702.4	1725.6	1731.4	1719.8	1702.4	1679.2	1656.1	1656.1
47.5°	1650.3	1650.3	1673.5	1702.4	1731.4	1737.2	1731.4	1702.4	1673.5	1656.1	1650.3
50°	1621.3	1621.3	1650.3	1685.0	1719.8	1731.4	1719.8	1696.6	1656.1	1632.9	1627.1
52.5°	1575.0	1575.0	1604.0	1650.3	1685.0	1702.4	1690.8	1661.9	1621.3	1586.6	1580.8
55°	1505.5	1511.3	1540.3	1592.4	1632.9	1650.3	1638.7	1604.0	1557.6	1522.9	1511.3
57.5°	1424.5	1424.5	1465.0	1517.1	1557.6	1575.0	1563.4	1528.7	1476.6	1441.8	1430.3
60°	1314.4	1320.2	1355.0	1424.5	1465.0	1482.4	1470.8	1430.3	1372.4	1331.8	1320.2
62.5°	1204.4	1210.2	1245.0	1302.9	1349.2	1360.8	1349.2	1308.7	1256.5	1216.0	1204.4
65°	1077.0	1082.8	1123.4	1175.5	1210.2	1227.6	1210.2	1175.5	1129.1	1088.6	1082.8
67.5°	943.9	949.6	990.2	1036.5	1071.2	1082.8	1065.5	1036.5	990.2	955.4	943.9
70°	804.9	810.7	845.4	885.9	914.9	926.5	914.9	880.2	845.4	810.7	804.9
72.5°	660.1	665.9	700.7	735.4	758.6	770.1	752.8	729.6	694.9	665.9	660.1
75°	521.1	521.1	550.1	579.1	602.2	608.0	596.4	579.1	550.1	526.9	515.4
77.5°	388.0	388.0	416.9	434.3	445.9	457.5	445.9	428.5	411.1	388.0	388.0
80°	260.6	260.6	283.7	295.3	306.9	312.7	306.9	295.3	283.7	266.4	260.6
82.5°	156.3	156.3	167.9	179.5	179.5	185.3	185.3	179.5	167.9	156.3	156.3
85°	69.5	63.7	75.3	81.1	81.1	86.9	86.9	81.1	75.3	69.5	69.5
87.5°	5.8	11.6	11.6	17.4	17.4	17.4	17.4	17.4	11.6	11.6	11.6
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)